

WHAT IS CLAIMED IS:

1. A projection display system, comprising:
 - a) a light source operable to produce a white light beam;
 - b) illumination optics operable to separate the white light beam into at least two beams of light each of different colors;
 - c) a panel of individually addressable elements;
 - d) a reflective element operable to reflect the at least two beams of light from the illumination optics to the panel of individually addressable elements as a scanning raster; and
 - e) projection optics operable to project an image received from the panel to a display surface.
2. The projection display system of claim 1, wherein the illumination optics further comprise:
 - a) a light integrator operable to receive the light from the light source;
 - b) a polarizing beam splitter and quarter-wave plate operable to receive the light from the light integrator and rotate the light to a polarization state 90 degrees away from a current polarization state;
 - c) dichroic mirrors operable to receive the light from the polarizing beam splitter and split the light into at least two colors;
 - d) fold mirrors operable to reflect light received from the dichroic mirrors to the reflective element, wherein there is a fold mirror for each of the colors;
 - e) a field lens operable to allow telecentric illumination.
3. The projection display system of claim 2, wherein the illumination optics further comprise relay optics between the polarizing beam splitter and the reflective element.
4. The projection display system of claim 1, wherein the illumination optics further comprise:
 - a) a light integrator operable to receive the light from the light source;
 - b) dichroic mirrors operable to receive the light from the light integrator and split the light into at least two colors;
 - c) fold mirrors operable to reflect light received from the dichroic mirrors to the reflective element, wherein there is fold mirror for each of the colors; and
 - d) a field lens operable to allow telecentric illumination.
5. The projection display system of claim 1, wherein the panel of individually addressable elements further comprises a transmissive liquid crystal display panel.

6. The projection display system of claim 1, wherein the panel of individually addressable elements further comprises a reflective liquid crystal display panel.
7. The projection display system of claim 1, wherein the panel of individually addressable elements further comprises a digital micromirror device panel.
- 5 8. The projection display system of claim 1, wherein the projection optics further comprises a projection lens.
9. The projection display system of claim 1, wherein the projection optics further comprise a projection lens and a second polarizing beam splitter.
10. A reflective element shaped substantially like a disc with a top surface, the top surface
10 having:
a) a first tilt angle at a first position;
b) a second tilt angle at a second position;
c) a third tilt angle at a third position;
d) a fourth tilt angle at a fourth position; and
e) a fifth tilt angle at a fifth position.
11. The reflective element of claim 10, wherein the first and fourth tilt angles are substantially equal to positive and negative values of each other.
12. The reflective element of claim 10, wherein the first and fourth tilt angles have a magnitude in the range of 2 to 10 degrees.
13. The reflective element of claim 10, wherein the second and third tilt angles are substantially equal to positive and negative values of each other.
14. The reflective element of claim 10, wherein the third tilt angle is substantially equal to zero.
15. The reflective element of claim 10, wherein the discontinuity further comprises a junction
25 between the first and fifth positions.